

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Bryan et al. PATENT NO. 5,865,846

SERIAL NO.: GROUP ART UNIT:

FILED: February 2, 2001 EXAMINER:

FOR: HUMAN SPINAL DISC PROSTHESIS

ATTORNEY DOCKET NO.: 46739/252388

DATE: February 2, 2001

Assistant Commissioner for

Patents

Washington, D.C. 20231

REISSUE DECLARATION

Sir:

The undersigned, Vincent Bryan and Alex Kunzler, hereby declare as follows:

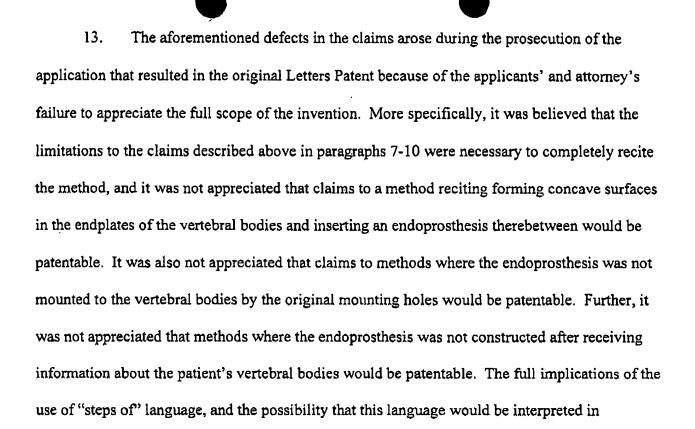
- 1. We are the named inventors of U.S. Letters Patent No. 5,865,846, entitled "Human Spinal Disc Prosthesis," which was granted on February 2, 1999, and our respective residences and countries of citizenship are provided below.
- 2. We verily believe ourselves to be the original, first and joint inventors of the invention described and claimed in U.S. Patent No. 5,865,846.
- 3. We verily believe United States Letters Patent No. 5,865,846 to be partially inoperative or invalid by reason of our claiming less than we had a right to claim, and by reason

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of errors therein.

- 4. The errors in the original Letters Patent were discovered as a result of recent discussions between in-house counsel and outside counsel during a review of assignee's patent portfolio by in-house counsel.
- 5. During those discussions, it was discovered that claims 1-9 of the patent contained limitations that were not necessary for the claims to be patentable over the art of record.
- 6. More particularly, during this review, it was discovered that claims 4, 8, and 9 recited steps that were not necessary for patentability over the art of record.
- 7. In claim 4, the steps of removing the vertebral disc from the spine, forming holes at predetermined locations, tapping the holes, and threadably implanting anchors into the holes were not required for the claim to be patentable over the art of record.
- 8. In claim 8, the step of mounting the intervertebral disc endoprosthesis by means of the original mounting holes, and the limitation that the outer surfaces of the endoprosthesis mate "precisely" were not required for the claim to be patentable over the art of record.
- 9. In claim 9, the step of thereafter constructing the intervertebral disc endoprosthesis was not required for the claim to be patentable over the art of record.
- 10. In addition, claims 4, 8, and 9 use language that could be construed as overly limiting "step plus function" language under 35 U.S.C. § 112, paragraph 6, and which language is unnecessary to render these claims patentable over the art of record.
- 11. In addition to claiming less than we had a right to claim, the claims contain errors that render them wholly or partially inoperative or invalid.
- 12. More particularly, claims 4, 8, and 9 each refer to a "vertebral disc," which does not exist, and should instead refer to an "intervertebral disc"



14. The errors in the claims were discovered during a recent review of the patent portfolio of the assignee, which resulted in a reassessment of the scope of the claims in the patent, and the realization that claims should have been sought that recited the novel and nonobvious features of the invention, and did not recite features that were unnecessary to patentability.

accordance with 35 U.S.C. § 112, sixth paragraph, were not fully appreciated or understood by

15. After becoming aware of the aforementioned errors, a detailed review of the prosecution history of the original application was undertaken to ascertain how the errors occurred, and the present application for reissue of United States Letters Patent 5,865,846 was promptly prepared. Amendments to claims 4, 8, and 9 were prepared in the form of the accompanying Preliminary Amendment to correct the above defects and errors, and to render the

applicants or their attorney.





claims more readable, and additional dependent claims 10-18 were added to provide more comprehensive claim coverage and to replace existing claims 5-7.

- 16. This application for Letters Patent addresses the aforementioned defects in the claims. These errors arose through inadvertence, and without any deceptive intention on our part.
- 17. We verily believe ourselves to be the first, original and joint inventors of the subject matter that is claimed in this application for reissue and for which reissue of the original Letters Patent on the invention entitled "Human Spinal Disc Endoprosthesis" is sought, and do not believe that the invention was ever known or used before our invention thereof was made.
- 18. We have reviewed and understand the contents of the specification, including the claims as presented in the accompanying application for reissue.
- 19. We acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §§ 1.56(a).
- 20. We offer to surrender U.S. Letters Patent No. 5,865,846, conditioned upon the reissue of said Letters Patent.



21. We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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ASSIGNMENT

WHEREAS, we, Vincent BRYAN and Alex KUNZLER, have invented certain improvements in "Human Spinal Disc Endoprosthesis" for which we have filed an application for United States Letters Patent on May 15, 1997, assigned U.S. Serial No. 856,513, which issued as U.S. Patent No. 5,865,846; and

WHEREAS, SPINAL DYNAMICS CORPORATION, a corporation having an office at 9655 SE 36th Street, Suite 110, Mercer Island, WA, 98040-3732, desires to purchase same;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid by SPINAL DYNAMICS CORPORATION, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and conveyed the entire right, title and interest in and to U.S. Patent No. 5,865,846 and in and to any reissues, renewals, divisionals, or continuations thereof, or corresponding foreign applications that claim benefit thereof, together with all claims for damages by reason of past infringement of the patents and the right to sue for and collect such damages for its own use, the same to be held and enjoyed by SPINAL DYNAMICS CORPORATION for its own use and enjoyment and the use and enjoyment of its successors, assigns or other legal representatives to the full end of the term for which the patents are granted or reissued as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made. Further, we bind ourselves, our legal representatives, administrators and assigns properly to execute without further consideration any and all applications, petitions, oaths and assignments or other papers

U.S. Serial No. 09/618,618 Filed: July 18, 2000 ASSIGNMENT

and instruments which may be necessary in order to carry into full force and effect the sale, assignment, transfer and conveyance made or intended to be made.

Vincent Bryan

Alex Kunzler

STATE OF WASHINGTON) ss. COUNTY OF King)

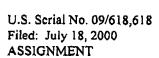
On this 2d day of February, 2001, before me, a notary public, came Vincent

Bryan, to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

Manharaldacushion Notary Public

My Commission expires: March 29, 2003

SEAL COUNTY OF KIND



On this 2d day of February, 2001, before me, a notary public, came Alex Kunzler, to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

Mary Pu

My Commission expires: Warch 29, 2003